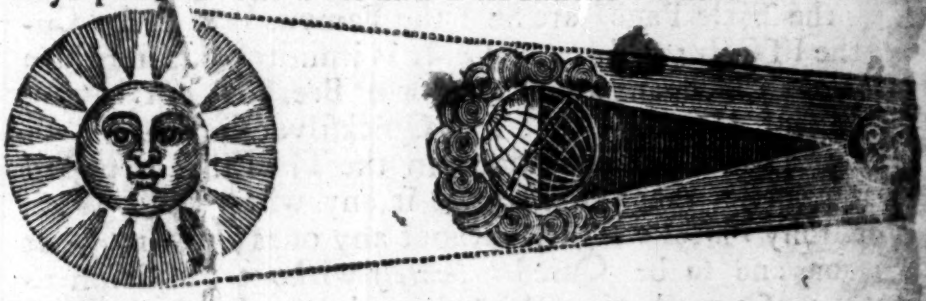
ECLIPS
531.e.8 (6)
OF THE
MOON.

Which will happen on *Sunday* in the Evening of the 10*th* Day of *October*, this preſent Year 1725.

When the whole Body of the Moon will be ſo immerged in the Shaddow that comes to it from towards the Earth, and thereby have its Light ſo taken from us, that ſhe will appear in a very Formidable and Frightful Manner, and which Eclipſe will laſt almoſt Four Hours to the Aſtoniſhment of the Beholders.

WHEN the Moon is repreſented like ſomething of a Human Face, it is not that the Moon really has any ſuch Face in it ſelf, being a Thick Body like our Earth, having in it Mountains, Hills, Seas, Rivers, Valleys, &c.

But thoſe Hills and Mountains being Prominous, and ſetting out, give Shades to the Light which the Moon receives from the Sun, which Shades make that Appearance to us in the Moon which we fancy like the Features of a Human Face, and therefore it is, that a Full Moon is always painted like a Round Full Human Face.



In order therefore to Leſſen the Surprize that this ſtrange Appearance in the Heavens may put Perſons ignorant of the Cauſe of Eclipſes in,——This Account is

GIven Gratis Up One Pair of Stairs at the Celebrated *Anodyne Necklace* (Recommended by Dr. *Chamberlen* for Children's Teeth) next the Roſe Tavern without *Temple-Bar*.

At Mr. *Jeremiah Pain*'s the Sign of the Bunch of Grapes the Firſt Toy Shop within *Pope's Head Alley* from *Cornhill*.

At Mr. *Greg*'s Bookſeller, at *Charing-Croſs*.——And

By *R. Bradſhaw* (the Author's Servant) againſt *Sutton-ſtreet* Field, by *Soho Square*, as at large, Page 7, which turn to.

LONDON: Printed by *H. Parker* in *Jewin Street*.

ber to have the Practical Scheme Given them, or to Buy the Anodyne NECKLACES, or any of the other Things, &c.

ALL Persons who go to the ROYAL-EXCHANGE to have that Famous little Book, which is there Given Gratis, Entituled the *Practical Scheme* of the Secret Disease, a GLEET and a Broken Constitution by Fast Living, Former Cures, Salivations, Mercury, Self-Abuses, *&c.* Teaching Persons to understand Rightly their Own Case, and to Cure Themselves without making known their Condition to ANY One.——Dedicated to Dr. *Chamberlen.*

Are desired to take particular Notice, not to Mistake Mr. *Jeremiah Pain*'s Shop, in *Popes-Head-Alley* in *Cornhil* (there being TWO Mr. *Pain*'s Kinsmen, both Toy-shops, in *Popes-Head Alley.*) Where *Note.* That Mr. *Jeremiah Pain*'s Shop, is The First Toy-shop on the Right Hand, just within *Popes-Head-Alley*, as you enter into the *Alley* from *Cornhil.*

And Mr. *Jeremiah Pain*'s Shop has a little Carved Bunch of *Grapes* hanging over it, which is his Sign, and which Shop is particularly chose in that Place, for its Commodiousness and Privacy, to Buy any thing Privately at. Again, *Note also*: That *Pope's-Head-Ally*, where Mr. *Pain*'s Shop is the *Alley* next to *Exchange Ally* in *Cornhil*, that turns by the *Pope's-Head* Tavern, not quite at the *Change*, but a little before you come at the *Change*, going up from *Stocks-Market*, on the opposite Side of the Way to the *Change.*

AT Mr. *Pain*'s Shop (as well as at the other Places in the Title-Page) are Sold the Famous Water for Curing the ITCH. 1 s. 6 d. a *Bottle.* It is infinitely a safer Cure for the ITCH, or any Itchy Humor or Breaking out (having nothing of Mercury) than any Quicksilver Girdle, *&c.*

The ITCH is not mentioned in the Title that is pasted on the Bottle, that you may set it any where, and Wash your Itchy Places with it, without any ones knowing what it is for, and so be Cured *Privately* without Suspicion to any one of your having the *Itch*, which makes it the most Commodious Cure of any ever yet known for the *Itch.*

The Pectoral *Lozenges* for the Heart-Burn. 6 d. a Paper.

The Cephalick & Opthalmick TOBACCO, 1 s. a Paper: Or 3 Papers (containing about a Pound) for 3 s. 6 d.

And the Purging Plums 12 d. a Dozen: or 9 s. a Gross.

And the late Treatise on the *Plague*, Or the *Eronania*, Or the SHORT-HAND, are Given Gratis to any Customer.

DR. *Bodenham*'s BLEEDING-DROPS are Sold Up one Pair of Stairs at the *Anodyne Necklace* at *Temple-Bar.*

They presently Cure all Fluxes of *Blood* in Women, Children, either by Wound, Spitting, Vomitting, or other Issuing of Blood. 2 s. 6 d. the *Bottle* with Directions.

the Greek Word ἔκλειψις a Deficiency, or Want.

So that the Word Eclipſe of the Sun or Moon, ſignifies a Failing or Want of Light in either of thoſe Bodies.

But as an Eclipſe of the Sun, is cauſed by the Moon's Paſſing exactly between us and the Sun, and ſo ſeemingly to darken the Sun's Body, and ſo to deprive us of its Light,

The Sun in its ſelf looſes none of its Light, no more than a Candle looſes any of its Light, by putting ones Hand between ones Eye and it, and by conſequence

The Word Eclipſe is improperly applied to the Sun, who never looſes any of its Light, but is properly applied to the Moon, who when Eclipſed, looſes her Light thus.

The Moon according to Aſtronomers, is a dark thick Body, which receives its Light from the Sun as we do, the Reflexion of which towards us, is what we call *Moon-Light*.

If therefore any Dark Body interpoſes between it and the Sun, it muſt be deprived of its Light. Now it ſometimes happening in the Motion of the Celeſtial Orbs, that This our Earth interpoſes between the Moon and the Sun, the Moon is thereby deprived of the Sun's Light So that

An Eclipſe of the Moon is nothing but a Shaddow coming from towards the Earth, covering the Moon's Body.

An Interpoſition of this Nature, will remarkably happen the 10*th* of *October* next in the Evening, & will be of the Longeſt Duration of any Eclipſe that has, or WILL happen for many Years, as appears by the following Calculation of ALL the Total Eclipſes for 15 Years *To Come*, *viz.*

IN the Year 1729, On *Candlemas-Day*, the Moon will be totally Eclipſed at 44 Minutes paſt 8 at Night.

In the ſame Year 1729, on *Tueſ. July* the 29*th* She will be again totally Eclipſed, at 19 Min. paſt One in the Morning.

In the Year 1732, on *Monday* the 20*th* of *November*, the Moon will be totally Eclipſed at 58 Minutes paſt 9 at Night.

In 1736, On *Monday* the 15*th* of *March* the Moon will be totally Eclipſed at 51 Minutes paſt Eleven at Night.—And

In the ſame Year 1736, on *Thurſ. Sept.* 9*th* She will again be totally Eclipſed at 2 Minutes paſt 3 in the Morning

And in the Year 1740, on *Wed. January* the 2*d* the Moon will be totally Eclipſed at 25 Minutes paſt Ten at Night:

And theſe are ALL the TOTAL Eclipſes of the Moon, that will happen for 15 Years *To Come*. The Duration of all which Eclipſes will be ſome Minutes above 3 Hours.

But this Great Eclipſe of the Moon that will be Viſible to all in *England*, *Scotland*, *Ireland*, *France*, &c. on *Sunday* Oct. the 10*th* this Year 1725, will begin upon a Full, and Reſplendent Moon (if the Air be clear) at half an Hour after 9 in the Evening:

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half an Hour after Six, it will be (to every one's very great Surprize) entirely Dark and Frightful, and the Moon will appear very formidable for almoſt 2 Hours:

After which the Shaddow will leave the Moon's Body, and *Comfortable* Light will again appear at 3 Minutes after Eight, and will not be over till One Minute after Nine.

So that the Duration of this Great Eclipſe from the begining to the end of it, will be near upon 4 Hours

The next Greateſt and near Total Eclipſe which will happen and be Viſible to us of the Sun juſt 12 Years hence, *viz.* on *Friday* the 18*th* of *Feb.* in the Year 1737, at 2 in the Afternoon, will be of no longer Duration than the Two Great Eclipſes of the Sun were in 1715, & 1724.

This our preſent Eclipſe therefore being the Greateſt of any that has, or will happen for many Years, it being not only Total, but almoſt Central; that is, the Body of the Moon will be immerged almoſt in the Center of the Shaddow that comes from towards the Earth, ſo great an Immerſion ſcarce happening Twice in the Memory of any Man, it well deſerves the Obſervation of the Curious.

There will indeed happen Viſible to us in *England* a very Great and ſurprizing Eclipſe of the Sun on *Wed. Sept.* the 14*th* next Year 1726 at 37 Min. paſt 5 in the Afternoon,

But of this Great Eclipſe of the Sun, another Account will be Publiſhed & Given alſo Gratis in *Auguſt* next Year.

ANY Perſon that ſhall Live 15 Years, and will but be pleaſed to keep this Account of the Total Eclipſes that are to be for 15 Years to Come by them, will find That they will happen exactly on the Day and Hour as mentioned in this Calculation of them: For the Motions of the Heavens having for above Five Thouſand Years been found to be Regular, the Certainty of Any Eclipſe whether of *Sun* or *Moon* to a Minute for any Number of Years to come, is now no manner of *Gueſs-Work*, but *Demonſtration.*

But to Foretell ſuch Eclipſes, is the great matter, *Hic Labor Hoc opus eſt*, And therefore it is, that for the finding out the exact time of the happening of theſe Total Eclipſes to even a Minute on ſuch and ſuch a Day of the Month of ſuch a Year, this Calculation of theſe Total Eclipſes for 15 Years to come, has been at the expence of that Labour & Pains, which no one can poſſibly know, but THAT Perſon only who ſhall attempt to do the like.

And 15 Years hence, whoever has a mind to know what Eclipſes will then happen for 15 Years more to come, let them THEN Calculate them if they pleaſe, theſe Eclipſes for 15 Years to come, are enough at preſent.

THE *Venereal* and *Gleet* Diſpenſatories, are juſt Publiſhed at the *Necklace* at *Temple-Bar*. Pr. 6*d*. each. The

THE Sun muſt be ſuppoſed to be vaſtly bigger than the Earth, and the Earth to be larger than the Moon. Again the Diſtance between the Sun and the Earth muſt be ſuppoſed to be much greater than between the Earth and the Moon: All which being ſuppoſed (becauſe ſuch Diſproportions in Magnitudes and Diſtances cannot be expreſſed in a little Print, which can only give ſome Idea of the thing) the Earth will throw a Shaddow juſt between her and the Sun. And as the Earth has an Atmoſphere of about 50 Miles high, of Clouds, Fogs, Vapours, *&c.* about her, the Rays of the Sun being refracted by it, ſo illuminate all the outſide of the Earth's Shaddow, as to make it only a *Penumbra* or thin faint Shadow, and leaves only ſome of the REAL Shaddow of the Earth in the Middle, expreſſed by the Triangular Black Shaddow.

An Enquiry into what Shaddow it is, that cauſes an Eclipſe of the Moon.

THat Eclipſes of the Moon are cauſed by the Shaddow of the Earth interpoſing between her and the Sun, was always the Opinion of Aſtronomers, till the End of the 15th Century, when one *John Kepler*, a *German* was the firſt that ever doubted the Truth of it.

After this Author another great Mathematician *Ricciolus* aſſerted the ſame, but neither of them proved it, till the End of the Sixteenth Century, when a very great Aſtronomer and Mathematician at *Antwerp* in the *Low Countries* one *Andrew Taquet* in his Fourth Book of Aſtronomy. *Volum.* 2. *Cap.* 2. *Num.* 17. proves an Eclipſe of the Moon not to be cauſed by the Shaddow of the Earth, but by the Shaddow of the Atmoſphere of the Earth, in theſe Words.

Umbræ Terreſtris longitudo colligitur Semidiametrorum Terreſtrium circiter 43 *aut* 42. Atqui *Lunæ a Terræ Centro Diſtantia nunquam minor eſt Semidiametris Terræ* 50. Ergo. *Umbra Terræ nunquam pertingit ad Lunam, Quare Luna à Terræ Umbrâ nunquam poteſt obſcurari. Umbræ autem Atmoſphæræ longitudo ſemper excedit Semidiametros Terræ* 213. Ergo. *Luna Soli oppoſita, ab Atmoſphæræ Umbrâ neceſſariò obſcuratur.* Thus *Taquet loco citato.*

The meaning of which is. That the Length of the *Earth's Shaddow* is now found to be about 42 or 43 Semidiameters (or Half breadths) of the Earth: But the Diſtance between the Center of the *Earth*, and the *Moon* is at leaſt 50 Semidiameters of the *Earth*; Therefore the *Shaddow* of the *Earth* cannot reach the *Moon*: Whereas the *Shaddow* of the *Atmoſphere* is more than 213 *Semidiameters* of the Earth; Therefore the *Moon* can be eclipſed by only the *Shaddow* of the *Atmoſphere* of the *Earth*. Thus *Taquet*. And

...ble to this Doctrine of *Liquet*, is the *Dra...* above in the Title-page, which ſhews that what Shaddow there is of the Earth which the refracted Rays of the Sun on the Atmoſphere do not enter upon, ends in a Point before it arrives at the Moon, and ſo cannot Eclipſe her.

The reaſon of which is, The Diſtances between the Sun & this our Globe of Earth, and again between this our Earth & the Moon, together with the Magnitudes of the Moon, of this our Earth, and of the Sun, are now known to be ſuch, that what middle Shaddow of the Earth there is which the refracted Rays of the Sun from the Atmoſphere do not come at, making a Cone, or the Figure of a Sugar Loaf towards the Moon, muſt of Neceſſity end in a Point, by that time it reaches the Moon's Body: and by conſequence can by no means cover it:

So that the Earth with its Atmoſphere when between the Sun and the Moon makes Two Shaddows, *viz.*

A very Thick Middle Shaddow of the Earth, and a Thin Shaddow or Penumbra of its Atmoſphere, and 'tis this Thin Shaddow that Covers the Moon, and Eclipſes her from the Sun's Light, and thro' which we ſee her:

So that were it poſſible that this our Earth could throw its own REAL Thick Shaddow as far as the Moon of ſuch an extent as to cover the Body of the Moon, She wou'd when Eclipſed not at all appear to us, by Reaſon of the Denſity of the Earth's Shaddow, whereas in this Eclipſe of the Moon *Octob.* 10*th* this Year 1725, ſhe will *Appear* tho' in a very unuſual Manner, becauſe the Shaddow of the Atmoſphere of the Earth is only a *Penumbra.*

If any Perſon ſhould condemn this as a New Opinion in Aſtronomy, and different from the common Notion hitherto almoſt univerſally received of Lunar Eclipſes being cauſed by the Shaddow of the Earth, 'tis no matter for that, 'Tis True, & the common Notion of Lunar Eclipſes being cauſed by the Shaddow of the Earth it ſelf, is moſt evidently and demonſtratively falſe, and therefore

The Renown'd Aſtronomers Mr. *Partridge*, Poor *Robin*, Mr. *Gadbury*, *Qui etiam Mortui* (ſtill) *loquuntur*, and all other Almanack Makers, are from This Day adviſed to change their Language in all their future Almanacks about Lunar Eclipſes, and aſſert no more that they are cauſed by the Moon's being covered by the Shaddow of the Earth

And therefore for the future if they have a mind to ſpeak Truth, let them ſay that An Eclipſe of the Moon is cauſed by the Moon's being covered by the Shaddow of the Atmoſphere of the Earth interpoſed between the Moon, & the Sun, and not by the Shaddow of the Earth, which can no ways be, as above has been ſhewed.

Ad-

IN the new Edition of the *Practical Scheme* of the *Secret Diſeaſe* which is Given Gratis at the Places above in the Title-Page, is clearly ſhewed that of all the Ways of Curing the *Firſt* Degrees of the *Venereal Diſtemper*, or a *Gleet*, Dr. *Cockburn's* Method by a proper diſtinct Lotion for each, without taking of Phyſick is clearly the beſt.

And which Lotions are *6 s.* each, ſealed up with Directions, at the Places above in the Title page. —— But

For the ſaving of Trouble, and for greater Privacy,

Every Reader is deſired to take Notice.

THat Perſons who may live ſome Diſtance from *London*, may the more Eaſily and Privately come by either of theſe LOTIONS, or any of the other Things mentioned in the Scheme,

A Servant is employed on Purpoſe to Carry any of thoſe Remedies *Privately* to whoever writes for them,

If they ſend but the leaſt *Note by the Penny-Poſt directed Thus*;

To *Mr R. Bradſhaw*, againſt *Sutton-ſtreet End* by *Soho-Square*.

So that as ſoon as ever this Note is received:

This Perſon will preſently bring PRIVATELY to you,

Or leave at any Houſe *Privately* for you, as you ſhall order him, whatever of thoſe *Things you ſhall write to him for*:

His Buſineſs being expreſly to CARRY any of them (*Carriage free*) to whoever writes to him for them —Alſo

Upon the Receipt of any Letter directed thus to him by the *General Poſt* from any more *Diſtant Part*, as from any remote County of *England*, *Wales*, *Scotland*, *Ireland*, or elſewhere.

He will deliver to any Carrier, or Stage-Coachman:

Or to any Maſter of a Ship, Sloop, Hoy, or other Veſſel,

Or to any other Perſon, whatever you write to him for, to PRIVATELY put up, that no Perſon can know what it is:

So that by thus Writing by the POST, any one in the Country or elſewhere *Far from London*, may with all Eaſe, Expedition, and Privacy come by any of theſe Things.

And ſo Cure themſelves in any private Family in the Country, without making your Caſe known or ſuſpected to any one in the City, Town, or Family where you live.

THE *Reaſon for this Notice of Writing by the Poſt is, Becauſe Many Perſons in the Out Parts of* London, *or ſome Miles off in* Middleſex, Kent, Eſſex, or Surrey, *have not the Convenience of Sending for, or Fetching themſelves any of the Things mentioned in the* Practical Scheme. *Therefore, Since ſending a Note by the Penny-Poſt is ſo very* Eaſy and Ready at Hand to every Body, *This* Perſon *is appointed on Purpoſe to carry* Privately *to any one* (Carriage Free) *Any of thoſe Things they write to him for. And which will be found a moſt ready Way for any one to come by any of theſe things.*

ADVE

ADVERTISEMENT.

In NOVEMBER, DECEMBER, *and* JANUARY *will be Given Gratis at the Places in Title Page.*

A New Useful Pocket and Family JOURNAL for the enſuing Year, of Matters relating to Church, State, Hiſtory, Husbandry, Gardening, Times, Feſtivals, and Seaſons of the Year, for all Sorts of Perſons.

Concerning the GOUT.

THE Numbers of Perſons that are kept Eaſy and Free from the GOUT by only Carrying in their Pocket the Famous GOUT-STONE,

Whoſe Effect on the Gouty Joints is from the ſame Principles of Sympathy in Nature, as the *Blood-Stone* Cures Hemorrhages and Fluxes of Blood, The *Cramp-Ring* painful excruciating Cramps, the Carrying of *Spaniſh Flies* in the Pocket will affect the Urine, *&c.* Recommends this admirable *Remedy*, for the eaſieſt Cure of the Gout of any ever yet found out. And of which Manner of Operation every Perſon afflicted with the GOUT is deſired to peruſe

An Enquiry into the Queſtion, *Whether or No the* Carrying about *a Perſon, or* Wearing *of Any Remedy, can have any* Effect *upon a Diſtemper'd Body?* Which Book is Given Gratis

At Mr. *Jeremiah Pain*'s, Toy-ſhop in *Pope*'s *Head Ally, Cornhil*; and the other Places above in the Title Page.

At which Places are Sold the Famous & much Celebrated

ANODYNE NECKLACES.

Recommended by Dr. *Chamberlen* for Children to WEAR to Eaſe the Breeding, and Cutting of their Teeth.

His Royal Highneſs Prince *William*, and the reſt of the Royal Children have always WORE ONE, and not one of them ever Cut their Teeth ill, but with the greateſt Eaſe:

The ſame alſo have done many of the Nobility's Children Here and Abroad, this incomparable NECKLACE having been ſent for from *Paris, Vienna, Madrid, Lisbon, Stockholm*, and other Courts of *Europe*. And on the 20th of *Jan.* laſt, one of theſe *Necklaces* was Bought at *Temple-Bar* by a Perſon of the Firſt Quality, by expreſs Order of the King of *Denmark*, to be ſent over to *Copenhagen* for the Young Princeſs Royal of *Denmark* to *Wear*.——*Note*. Merchants and others have very large Allowance with theſe Necklaces which ſell extraordinarily Abroad.

FINIS.